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FIGURE 1A

bitterbush_[SIN_2] soybean_[SIN_8] borage_[gi_2062403] corn_[SIN_4] wheat_[SIN_10] wheat_[gi_4104056] soybean_[SIN_6] sunflower_[Gi_1040729] bitterbush [SIN_2]	MEEPK
soybean [SIN 8] borage [gi_2062403] corn [SIN 4] wheat [SIN 10] wheat [gi_4104056] soybean [SIN 6]	VKEHPGGDVPI SNLAGQDVTDAFTATHFGTAWSTLDKFFTGYHLSDFKVSEVSKDYRKLA VKEHPGGDVPI SNLAGQDVTDAFTAYHPGTAWSHLEKFFTGYHLSDFKVSEVSKDYRKLA VKDHPGGSFPLKSLAGQEVTDAFVAFHPASTWKNLDKFFTGYYLKDYSVSEVSKDYRKLV LPHHPGGEVPLITLAGQDATDAFMAYHPPSVRPLLRRFFVG-RLSDYTVPPASADFRRLL LRHHPGGEVPLITLAGQDATDAFMAYHPPSVRPLLRRFFVG-RLTDYTVPPASADFRRLLFSTSHRLSDHTVSAASSDFRRLL AKEHPGGDAPLINLAGQDVTDAFIAFHPGTAWKHLDKLFTGYHLKDYQVSDISRDYRKLA
bitterbush [SIN_2] soybean [SIN_8] borage [gi_2062403] corn [SIN_4] wheat [SIN_10] wheat [gi_4104056] soybean [SIN_6] sunflower [gi_1040729]	SEFSKMGLFKTPGKGVYCSIFFVSVLFALSVYGVLYCKSTWAHLCSGLLMGMLWLQSGWV SEFSKLGLFDTKGHVTSCTLASVAVMFLIVLYGVLRCTSVWAHLGSGMLLGLLWMQSAYV FEFSKMGLYDKKGHIMFATLCFIAMLFAMSVYGVLFCEGVLVHLFSGCLMGFLWIQSGWI AQLSSAGLFERVGPTPKVQLVLMAVLFYAALYLVLACASAWAHLLAGGLIGFVWIQSGWI AQLSSAGLFERVGHTPKFLLVAMSVLFCIALYCVLACSSTGAHMFAGGLIGFIWIQSGWI SOLSSAGLFERVGHTPKFLLVAMSVLFCIALYCVLACSSTGAHMFAGGLIGFIWIQSGWI SDLSALNLFNRKGHTTSILLSLILTLFPLSVCGVLFSDSTFVHVLSAALIGFLWIQSGWI SEFAKAGMFEKKGHGVIYSLCFVSLLLSACVYGVLYSGSFWIHMLSGAILGLAWMQIAYL

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FIGURE 1B

bitterbush_[SIN_2]

GHDAGHYMVVSDSRLNKFMGIFAANCLSGISIGWWKWNHNAHHIACNSLEYDPDLQYIPF 3HDSGHHRITGHPVLDRVVQVLSGNCLTGLSIAWWKCNHNTHHIACNSLDHDPDLQHMPL SHDSGHHQITRHPALNRLLQVVSGNCLTGLGIAWWKFNHNTHHISCNSLDHDPDLQHLPL SHDSGHHQITRHPALNRLLQVVSGNCLTGLGIAWWKFNHNTHHISCNSLDHDPDLQHLPL SHDSGHYNVMLSRRLNRAIQILSGNILAGISIGWWKWNHNAHHIACNSLDYDPDLQHMPV SHDAGHYQMMATRGWNKFAGIFIGNCITGISIAWWKWTHNAHHIACNSLDYDPDLQHLPM GHDSGHYVVMTTNGFNKVAQILSGNCLTGISIAWWKWTHNAHHIACNSLDHDPDLQHMPV 3HDSCHYQVMPNRKLINRLFQIIAGNVIAGVSVAWWKLDHNTHHFACNSANLDPDIQHLPI

IAISPKFFNSLTSYYHNCKMTYDRAARFFVSFQHWTFYPALLSVRLYLFILSFKVVFSNN LVVSSKFFGSLTSHFYEKRLTFDSLSRFFVSYQHWTFYPIMCAARLNMYVQSLIMLLTK-FAVSTKLFNNLWSVCYERTLAFDAISKFFVSYQHWTFYPVMGFARINLLVQSIVFLITQ-FAVSSRFFNSITSHXYGRKXEFDXIAXFLICYQHFTFYPVMCVARVNLYLQTILLLFSR-LAVSSKLFNSITSVFYGRQLTFDPLARFFVSYQHYLYYPIMCVARVNLYLQTILLLISK-FAVSTKLFNNLWSVCYERTLAFDAISKFFVSYQHWTFYPVMGFARINLLVQSIVFLITQ-FAVSSRFFNSITSHFYGRKLEFDFIARFLICYQHFTFYPVMCVARVNLYLQTILLLFSR FAVSPKLFGNIWSYFYQRTLAFDAASKFFISYQHWTFYPVMCIARINLLAQSALFVLTE soybean [SIN 8] borage [gi_2062403] corn [SIN 4] wheat [SIN 10] wheat [gi_4104056] soybean [SIN 6] sunflower [gi_1040729] soybean_[SIN_6] sunflower_[gi_1040729] bitterbush [SIN_2] soybean [SIN_8] borage [gi_2062403] corn [SIN_4] wheat [SIN_10] wheat [Gi_4104056]

sunflower_[gi_1040729] bitterbush [SIN_2]
soybean [SIN_8]
borage [gi_2062403]
corn [SIN_4]
wheat [SIN_10]
wheat [gi_4104056]
soybean [SIN_6]

RNVSYRAHELLGCLVFSIWYPLLVSCLPNWGERIMFVIASLSVTGMQQVQFSLNHFSSSV KRVPQRLLEIAGVATFWAWYPLLVASLPNWWERVAFVLFSFTICGIQHVQFCLNHFSSDV KKVRQRWLE1AGVAAFWVWYPLLVSCLPNWWERVAFVLASFVITG1QHVQFCLNHFSSAV KKVRQRWLE1AGVAAFWVWYPLLVSCLPNWWERVAFVLASFV1TG1QHVQFCLNHFSSAV XKVQDRALNIMGILVFWTWFLFLLA------LLFV-----PIQHIQFWLNHLAENL RKI PDRGLNILGTLI FWTWFPLLVSRLPNWPERVA FVLVSFCVTGIQHIQFTLNHFSGDV KRVYKRSQEILGYAAFLTWYSLLLSRLPNWPERVMYFTSCLAVAGFQHWQFSLNHFASNV RKVODRALNIMGILVFWTWFPLLVSCLPNWPERVMFVLASFAVCSIQHIQFCLNHFAANV



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FIGURE 1

bitterbush_[SIN_2]	YTGLPSGNDWFHQQTKGTLNITASAWWDWFHGGLHFQIEHHLFPRMPKCHFRKISPIVNK	
soybean_[SIN_8]	YVGPPSGNDWFEKQTSGTLDISCASSMDWFFGGLQFQLEHHLFPRLPRCQLRKISPLVSD	
borage_[gi_2062403]	YVGKPKGNNWFEKQTDGTLDISCPPWMDWFHGGLQFQIEHHLFPKMPRCNLRKISPYVIE	
corn_[SIN_4]	YVGPPKGNDWFEKQTAGTLDILCSPWMDWFHGGLQFQIEHHLFPRLPRCHLRKVAPAVRD	
wheat_[SIN_10]	YVGPPKGNDWFERQTAGTLDIKCSPWMDWFHGGLQFQVEHHLFPRLPRCHYRMVAPIVRD	
wheat_[gi_4104056]	YVGPPKGNDWFERQTAGTLDIKCSPWMDWFHGGLQFQVEHHLFPRLPRCHYRMVAPIVRD	
soybean_[SIN_6]	YXG	
sunflower_[gi_1040729]	YVGPPKGDNWFEKQTRGTIDIACSSWMDWFFGGLQFQLEHHLFPRLPRCHLRSISPICRE	

LCOKHNLSYETATMWEANKMVYSTLRAVAMEAKDVTK-PVPKNMVWEAMNTFG	LCKKHNLPYRSLSFWEANQWTIRTLRTAALQARDLTN-PAPKNLLWEAVNTHG	LCKKHNLPYNYASFSKANEMTLRTLRNTALQARDITK-PLPKNLVWEALHTHG	LCKKHGLTYSAATFWGANVLTWKTLRAAALQARTATSGGAPKNLVWEAVNTHG	LCKKHGLSYGAATFWEANVMTWKTLRAAALQAREATTGAAPKNLVWEALNTHG	LCKKHGLSYGAATFWEANVMTWKTLRAAALQAREATTGAAPKNLVWEALNTHG		LCKKYNLPYVSLSFYDANVTTLKTLRTAALQARDLTN-PAPQNLAWEAFNTHG
bitterbush_[SIN_2]	soybean_[SIN_8]	borage_[gi_2062403]	corn_[SIN_4]	wheat_[SIN_10]	wheat_[gi_4104056]	soybean_[SIN_6]	sunflower_[gi_1040729]